

Product Information Packet

April 5, 2017

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	5KS447XAJ5408A
Catalog Number:	V4829
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	148CB49INJRCCLA0001

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS447XAJ5408A	Estimated Weight:	2400 Lbs
Outline Drawing:	148CB49INJRCCLA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	841
Design Code:	49BD0086AE	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L447VP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.4 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	94.5
RPM:	3575	3/4 Load Efficiency:	94.4
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	30.7
Amps - FL:	215.0	Power Factor:	92.0
Service Factor:	1.15	Bearing - DE:	6217C4
Alt Service Factor:	--	Bearing - ODE:	235A2523AD01

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTIONS TO IEEE-STD-841-2009:
ALUMINIUM FAN BACK PLATE
VERTICAL 841
DE BRG 85RU02M00, ODE BRG 100BT02MD00
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ
GE SELF DECLARED CLASS I DIV 2 MOTOR
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITIONS
AT 1.00 S.F. DO NOT EXCEED 200 DEG C
API 610 12TH EDITION SHAFT DIMENSIONS

Additional Information:

2 POLE, VERT SOLID SHAFT HIGH THRUST (2D)
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
700 CU IN - 3.00" NPT WITH DRAIN HOLES
BEARING LIFE 8760 HRS AT 8008 LB THRUST
BEARING LIFE 26280 HRS AT 5211 LB THRUST
INPRO SEAL LOWER END
OIL RESISTANT SLEEVING ON LEADS
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
RABBETS AND PLUG THREADS.



STAINLESS STEEL T-DRAINS
FRAME GROUND PAD
ACTUAL EFFICIENCY = XX.X%
RCF: XXXX CPM AT C/BOX SIDE, XXXX CPM AT
90 DEG FROM C/ BOX SIDE
CG: XX.XX IN FROM P-BASE FACE

Performance Characteristics

1st Winding 1st Connection

Design: 49BD0086AE

Marks:

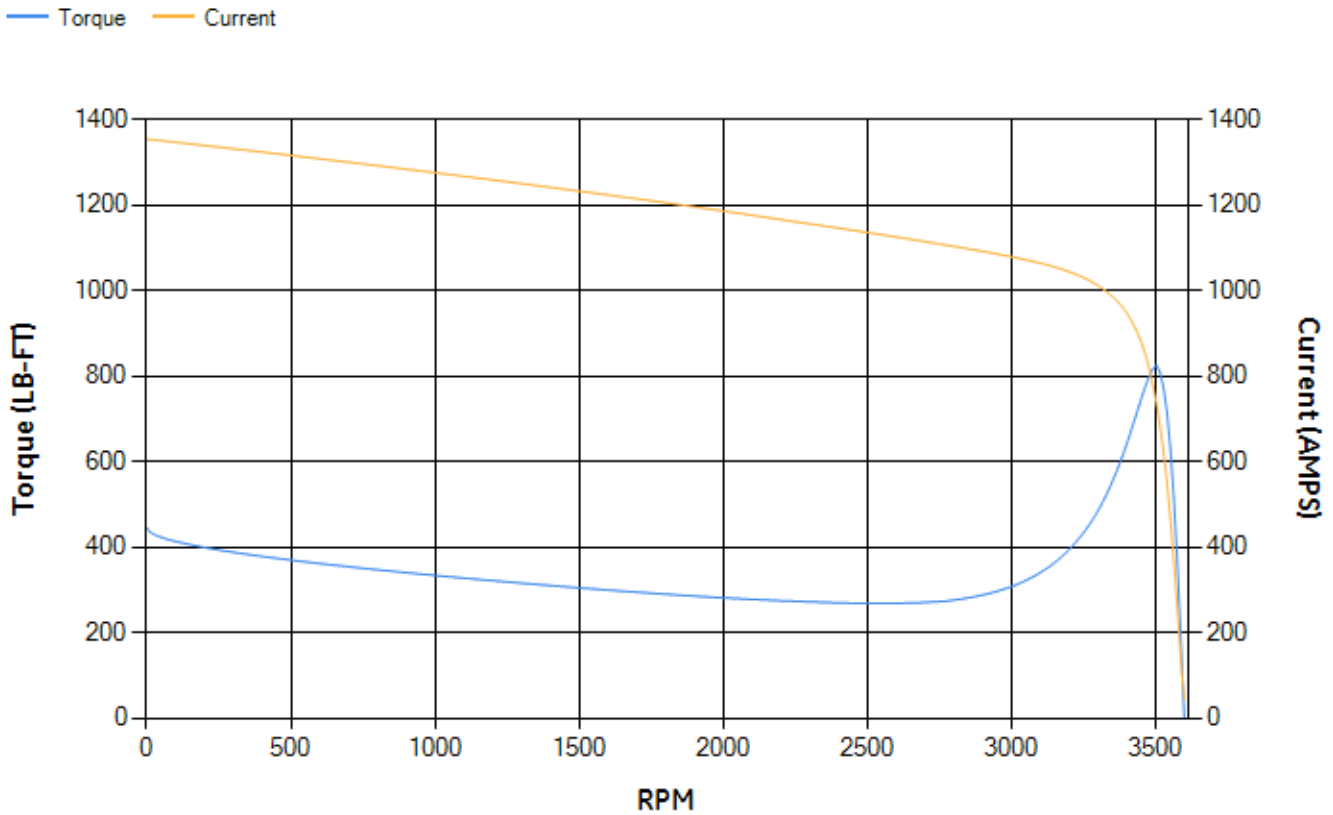
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.44	94.62	95.01	94.82	94.1	90.76	0.00
% PF	91.51	91.76	91.89	91.17	87.84	74.38	9.99
AMPS	270.75	247.94	214.41	162.39	113.23	69.33	42.82

TORQ(FL)#FT	293.53	TORQ(LR)%FL	151.62	TORQ(BD)%FL	280.65
AMPS(LR)	1353.89	PF AT START	0.23		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 563 Lb-Ft Sq (23.7 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 28 seconds. Safe stall time at 100% voltage is 71 seconds cold, 34 seconds hot. Rotor inertia is 43.07 Lb-Ft Sq (1.81 Kg-meter Sq).

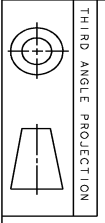
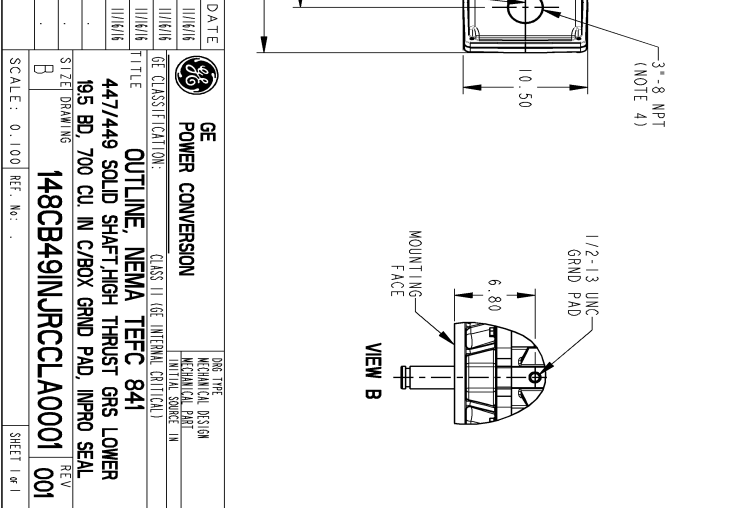
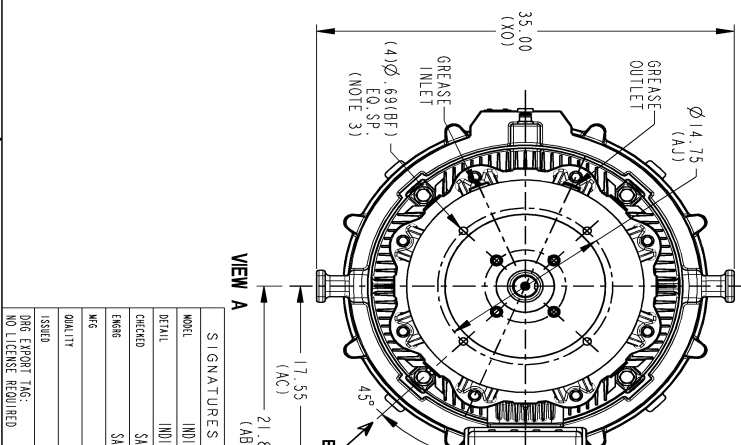
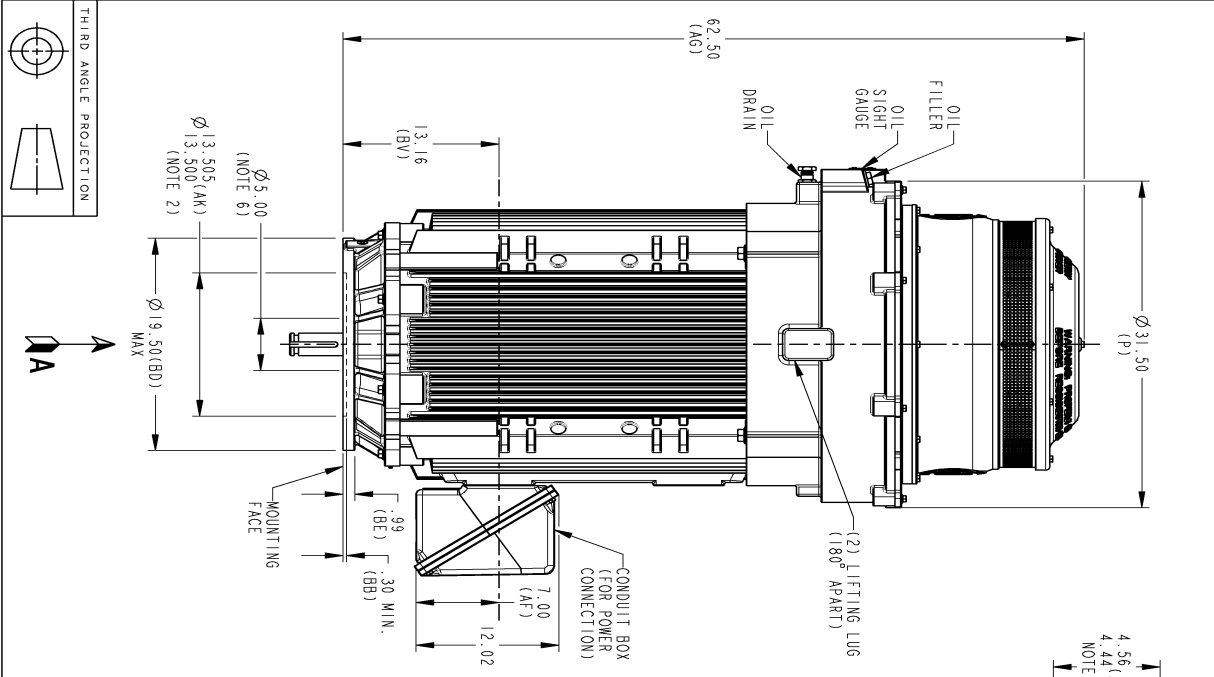
Open Circuit A-C:	2.137	Short Circuit D-C:	0.033
Short Circuit A-C:	0.07	X/R Ratio:	12.501
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SOLID MODEL: 148CB491NJRCLA0001



REV	DESCRIPTION	INDIRA	DATE	APPROVED
1	ISAC #16-1123	INDIRA	11/17/16	SASI

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REV. 1

DESCRIPTION: ISAC #16-1123

DATE: 11/17/16

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DATE: 11/17/16

APPROVED: SASI

- NOTES:
1. "AH" DIMENSION IS MEASURED WITH MOTOR IN VERTICAL POSITION SHAFT DOWN.
 2. MEETS API 610 12TH EDITION SHAFT DIMENSIONS.
 3. CENTER OF MOUNTING BOLTS HOLES WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRAL LINE OF MOUNTING RABBIT.
 4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
 5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
 6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

SIZE DRAWING NO. 148CB491NJRCLA0001 001

REV. 1

SHEET 1

REVISIONS

SCALE: 0.100 REF. No.

GE POWER CONVERSION

OUTLINE, NEMA TEC 841

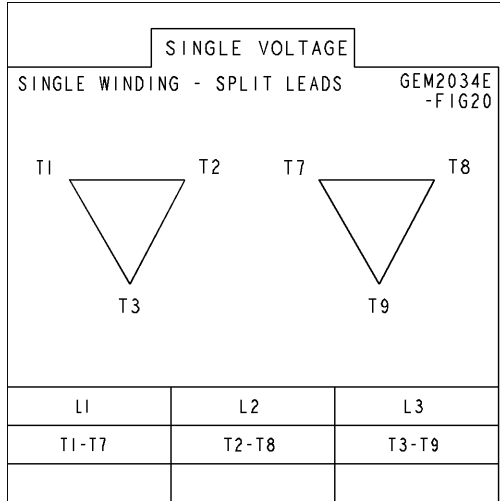
447/449 SOLID SHAFT-HIGH THRUST GRS LOWER

195 BD, 700 CU IN C/BOX GRND PAD, INPRO SEAL

148CB491NJRCLA0001 001

Marks:

Connection Diagram
GEM2034E-FIG20



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8661AA1	115E8671LA1
Bearing	235A2522AJ04	235A2523AD01
Slinger/Inproseal	235A4575GS4	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1886G01
Fan Cover	128D6847AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408DG2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

